## **CLAIMS**

## 5 1. A compound having a general formula (I):

wherein:

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 $R_1$  is selected from the group consisting of :

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R<sub>2</sub> represents a hydrogen atom, an alkyl or alkenyl group containing from 3 to 6 carbon atoms;

B represents an halogen atom, preferably chlorine, a hydroxyl group, a -O-CH<sub>2</sub>-O-CH<sub>3</sub> (MOM) group, a -O-CH<sub>2</sub>-O-CH<sub>2</sub>-O-CH<sub>3</sub> (MEM) group, a -OSO<sub>2</sub>-alkyl group or a -OSi(CH<sub>3</sub>)<sub>2</sub>tBu;

D represents an oxygen atom, NR<sub>3</sub>, CR'R" or a sulfur atom;

X represents an oxygen atom, a sulfur atom or a radical -NR<sub>4</sub>-;

Y represents an oxygen atom, a sulfur atom or a radical -NR<sub>4</sub>-;

5 R<sub>3</sub> represents a hydrogen, an alkyl group, a carboxylate group, an acyl group, a carboxamide group or a SO<sub>2</sub>-alkyl group;

R' and R", identical or different, represent a hydrogen atom or an alkyl radical;

10 R<sub>4</sub>, identical or different, is selected from a group consisting of a hydrogen atom, an alkyl group having from 1 to 10 carbon atoms, an aryl and an aralkyl;

"linker" represents (CH<sub>2</sub>)<sub>n</sub>, wherein n represents an integer between 1 and 10 inclusive, optionally interrupted by an heteroatom (preferably N, O, S and P) or a carbonyl group, or an aryldialkyl (preferably xylenyl) group ::

A represents a group selected from:

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optionally A is substituted,

its tautomers, optical and geometrical isomers, racemates, salts, hydrates and mixtures thereof.

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- 2- A compound according to claim 1, wherein:
  - X is sulfur, -NH- or preferably oxygen; and/or
  - Y is oxygen; and/or

, wherein D

- "linker" represents  $(CH_2)_n$ , wherein n is from 2 to 9, preferably 4 to 7, inclusive, or the meta, ortho or para-xylenyl groups,  $-CH_2CH_2CH_2CH_2$ -and  $-(C=O)CH_2CH_2CH_2CH_2-)$ ; and/or

R₁ is

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is oxygen, sulfur, -CH<sub>2</sub>- or NR<sub>3</sub>, wherein R<sub>3</sub> preferably represents H or an alkyl group (said alkyl is more specifically a methyl radical), and-CH<sub>2</sub>-B, wherein B is a -O-CH<sub>2</sub>-O-CH<sub>3</sub> group or -OSO<sub>2</sub>-alkyl group (wherein alkyl is preferably methyl) or halogen (preferably chlorine of fluorine); and/or

- R<sub>2</sub> is a hydrogen atom; and/or
  - A is a substituted group as defined above.

3- A compound according to claim 1 or 2, wherein A is substituted with at least one substituent, which may be selected from the group consisting of : a hydrogen atom, a halogen atom (preferably F, Cl, or Br), a hydroxyl group, a (C<sub>1</sub>-C<sub>10</sub>)alkyl group, an alkenyl group, an (C<sub>1</sub>-C<sub>10</sub>)alkanoyl group, a (C<sub>1</sub>-C<sub>10</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>10</sub>)alkoxycarbonyl group, an aryl group, an aralkyl group, an arylcarbonyl group, a mono- or poly-cyclic hydrocarbon group, a –NHCO(C<sub>1</sub>-C<sub>6</sub>)alkyl group, -NO<sub>2</sub>, -CN, a –NR<sub>5</sub>R<sub>6</sub> group or a trifluoro(C<sub>1</sub>-C<sub>6</sub>)alkyl group, R<sub>5</sub> and R<sub>6</sub>, independently from each other, are selected from the group consisting of a hydrogen atom, an alkyl group having from 1 to 10 carbon atoms, an aryl and an aralkyl.

- 4- A compound according to claim 3, wherein A is a substituted group and at least one of the substituents is an halogen atom, more preferably chlorine or fluorine.
  - 5- A compound according to one of the preceding claims, wherein at least one of the substituents, and more preferably all the substituents, of A represents a

hydrogen atom, a methyl group, a propyl group, an ethoxy group, an halogen atom, preferably chlorine or fluorine, or the CF<sub>3</sub> group.

- 6- A compound according to claim 1, which is selected from the group consisting of :
- 2-(Tetrahydro-pyran-2-yloxymethyl)-5-[5-(7-trifluoromethyl-quinolin-4-yloxy)-pentyloxy]-pyran-4-one (EHT 3788)
- 5-[5-(6-Fluoro-2-methyl-quinolin-4-yloxy)-pentyloxy]-2-(tetrahydro-pyran-2-yloxymethyl)-4*H*-pyran-4-one (EHT 1593)
- 5-[5-(6-Fluoro-2-trifluoromethyl-quinolin-4-yloxy)-pentyloxy]-2-(tetrahydro-pyran-2-yloxymethyl)-4*H*-pyran-4-one (EHT 1074)
  - 5-[5-(7-Propyl-quinolin-8-yloxy)-pentyloxy]-2-(tetrahydro-pyran-2-yloxymethyl)-4*H*-pyran-4-one (EHT 5810)
  - 5-[5-(Benzo[b]thiophen-7-yloxy)-pentyloxy]-2-(tetrahydro-pyran-2-yloxymethyl)-
- 15 4H-pyran-4-one (EHT 6060)
  - 2-(Tetrahydro-pyran-2-yloxymethyl)-5-[5-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-pentyloxy]-4*H*-pyran-4-one (EHT 9376)
  - 2-(Tetrahydro-pyran-2-yloxymethyl)-5-[4-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-butoxy]-4H-pyran-4-one (EHT 4745)
- 20 2-(Tetrahydro-pyran-2-yloxymethyl)-5-[6-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-hexyloxy]-4*H*-pyran-4-one (EHT 6271)
  - 2-Hydroxymethyl-5-[5-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-pentyloxy]-4*H*-pyran-4-one hydrochloride salt (EHT 1302)
  - 2-Hydroxymethyl-5-[5-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-pentyloxy]-4H-
- 25 pyran-4-one (EHT 5909)
  - 2-Methoxymethyl-5-[5-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-pentyloxy]-4*H*-pyran-4-one (EHT 2168)
  - 2-Chloromethyl-5-[5-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-pentyloxy]-4*H*-pyran-4-one (EHT 1494)
- 30 2-(4-Methyl-piperazin-1-ylmethyl)-5-[5-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-pentyloxy]-4H-pyran-4-one (EHT 7365)

- 2-Morpholin-4-ylmethyl-5-[5-(7-trifluoromethyl-quinolin-4-ylsulfanyl)-pentyloxy]-4*H*-pyran-4-one (EHT 7168).
- 5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-(fluoromethyl)-4*H*-pyran-4-one (EHT 8817)
- 5 5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-((piperidin-1-yl)methyl)-4*H*-pyran-4-one (EHT 9317)
  - 5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-(thiomorpholino-methyl)-4*H*-pyran-4-one (EHT 5430)
  - 2-((Diethylamino)methyl)-5-(5-(7-(trifluoromethyl)quinolin-4-ylthio)pentyloxy)-4H-pyran-4-one (EHT 7370)
    - 5-(5-(Quinazolin-4-yloxy)pentyloxy)-2-(morpholinomethyl)-4*H*-pyran-4-one (EHT 3726)
    - 5-(5-(Quinazolin-4-yloxy)pentyloxy)-2-((4-methylpiperazin-1-yl)methyl)-4*H*-pyran-4-one (EHT 4063)
- 4-[5-(6-Morpholin-4-ylmethyl-4-oxo-4H-pyran-3-yloxy)-pentyloxy]-7-trifluoromethyl-quinoline-3-carboxylic acid ethyl ester (EHT 8935)
   5-(5-(Quinazolin-4-yloxy)pentyloxy)-2-((pyrrolidin-1-yl)methyl)-4H-pyran-4-one (EHT 5317)
  - 5-(5-(8-(Trifluoromethyl)quinolin-4-yloxy)pentyloxy)-2-((4-methylpiperazin-1-
- 20 yl)methyl)-4H-pyran-4-one (EHT 5847)
  - 5-(5-(8-(Trifluoromethyl)quinolin-4-yloxy)pentyloxy)-2-(morpholinomethyl)-4*H*-pyran-4-one (EHT 4687)
  - 5-(5-(7-(Trifluoromethyl)quinolin-4-yloxy)pentyloxy)-2-(morpholinomethyl)-4*H*-pyran-4-one (EHT 3411)
- 5-(5-(7-(Trifluoromethyl)quinolin-4-yloxy)pentyloxy)-2-((4-methylpiperazin-1-yl)methyl)-4*H*-pyran-4-one (EHT 0079)
  - 5-(5-(6-(Trifluoromethyl)quinolin-4-yloxy)pentyloxy)-2-(morpholinomethyl)-4*H*-pyran-4-one (EHT 1426)
  - 4-[5-(6-(4-Methyl-piperazin-1-ylmethyl)-4-oxo-4H-pyran-3-yloxy)-pentyloxy]-7-
- trifluoromethyl-quinoline-3-carboxylic acid ethyl ester (EHT 8791)
  4-[5-(6-(4-Methyl-piperazin-1-ylmethyl)-4-oxo-4*H*-pyran-3-yloxy)-pentyloxy]-7-trifluoromethyl-quinoline-3-carboxylic acid ethyl ester (EHT 2725)

- 5-((4-((7-(Trifluoromethyl)quinolin-4-ylthio)methyl)phenyl)methoxy)-2-(morpholinomethyl)-4*H*-pyran-4-one (EHT 2218)
  5-((2-((7-(Trifluoromethyl)quinolin-4-ylthio)methyl)phenyl)methoxy)-2-(morpholinomethyl)-4*H*-pyran-4-one (EHT 9069)
- 5 5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-((4-acetylpiperazin-1-yl)methyl)-4H-pyran-4-one (EHT 3980)
  4-((5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-4-oxo-4H-pyran-2-yl)methyl)-N,N-diethylpiperazine-1-carboxamide (EHT 5743)
  5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-((4-(pivaloyl)piperazin-1-ylthio)pentyloxy)-2-((4-(pivaloyl)piperaz
- yl)methyl)-4H-pyran-4-one (EHT 0785)
  4-((5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-4-oxo-4H-pyran-2-yl)methyl)-N,N-di-isopropylpiperazine-1-carboxamide (EHT 0566)
  5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-((4-methylsulfonylpiperazin-1-yl)methyl)-4H-pyran-4-one (EHT 8366)
- 4-((5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-4-oxo-4*H*-pyran-2-yl)methyl)-*N-tert*-butylpiperazine-1-carboxamide (EHT 3664)
   4-((5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-4-oxo-4*H*-pyran-2-yl)methyl)-*N*-methylpiperazine-1-carboxamide (EHT 4495)
   5-(6-(Morpholinomethyl)-4-oxo-4*H*-pyran-3-yloxy)-*N*-(7-(trifluoromethyl)quinolin-
- 4-yl)pentanamide (EHT 6037)
   5-(2-(2-(7-(Trifluoromethyl)quinolin-4-ylthio)ethoxy)ethoxy)-2-(morpholinomethyl)-4H-pyran-4-one (EHT 0371)
   5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-(morpholinomethyl)-4H-pyran-4-one dihydrochloride (EHT 1864)
- 5-((3-((7-(Trifluoromethyl)quinolin-4-ylthio)methyl)phenyl)methoxy)-2- (morpholinomethyl)-4H-pyran-4-one dihydrochloride (EHT 0434) tert-Butyl 4-((5-(5-(7-(trifluoromethyl)quinolin-4-ylthio)pentyloxy)-4-oxo-4H-pyran-2-yl)methyl)piperazine-1-carboxylate (EHT 9358) tert-Butyl 4-((5-(5-(7-chloroquinolin-4-yloxy)pentyloxy)-4-oxo-4H-pyran-2-
- yl)methyl)piperazine-1-carboxylate (EHT 2580)
   5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-((4-methylpiperazin-1-yl)methyl)-4H-pyran-4-one trihydrochloride (EHT 9241)

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- 5-(5-(7-(Trifluoromethyl)quinolin-4-ylthio)pentyloxy)-2-((piperazin-1-yl)methyl)-4*H*-pyran-4-one trihydrochloride (EHT 8560)
- 5-(5-(7-Chloroquinolin-4-yloxy)pentyloxy)-2-((piperazin-1-yl)methyl)-4H-pyran-4-one (EHT 0872)
- 5 5-(2-(7-(Trifluoromethyl)quinolin-4-ylthio)ethoxy)-2-((tetrahydro-2*H*-pyran-2-yloxy)methyl)-4*H*-pyran-4-one (EHT 5575)
  - 5-(8-(7-(Trifluoromethyl)quinolin-4-ylthio)octyloxy)-2-((tetrahydro-2*H*-pyran-2-yloxy)methyl)-4*H*-pyran-4-one (EHT 1006)
  - 5-(7-(7-(Trifluoromethyl)quinolin-4-ylthio)heptyloxy)-2-((tetrahydro-2H-pyran-2-
- 10 yloxy)methyl)-4H-pyran-4-one (EHT 8883)
  - 5-(2-(7-(Trifluoromethyl)quinolin-4-yloxy)ethoxy)-2-(morpholinomethyl)-4*H*-pyran-4-one (EHT 6892).
- 7- A compound according to claim 6, which is EHT 9241, its free base EHT 7365, EHT 8560, EHT 1864, its free base EHT 7168 or EHT 5743.
  - 8- A pharmaceutical composition comprising at least one compound according to any one of the preceding claims and a pharmaceutically acceptable vehicle or support.
  - 9- A composition according to the preceding claim, for the treatment of a disease associated with abnormal cell proliferation or of a disease associated with unregulated angiogenesis.
- 10- A composition according to the preceding claim, for the treatment of cancers, restenosis, arthritis, diabetes, ocular-diseases or especially retinopathies.
  - 11- A composition according to one of the preceding claims, for the treatment of solid tumors or lymphoid tumors.
  - 12- A composition according to claim 10, wherein the cancer is selected from prostate cancer, ovarian cancer, pancreas cancer, lung cancer, breast cancer,

liver cancer, head and neck cancer, colon cancer, bladder cancer, non-Hodgkin 's lymphoma cancer, leukemia and melanoma.

- 13- A composition according to claim 8, for reducing cancer cell proliferation.
- 14- A composition according to claim 8, for treating metastatic cancers in a subject.
- 15- A composition according to claim 8, for treating diabetic retinopathies, retinal degenerative diseases, or Age-Related Macular Degeneration (ARMD).
  - 16- A composition according to claim 8, for treating arthritis.
- 17- A composition according to claim 8, for treating leukemia, in particular acute lymphoblastic leukemia, chronic myeloid leukemia, acute myeloid leukemia.